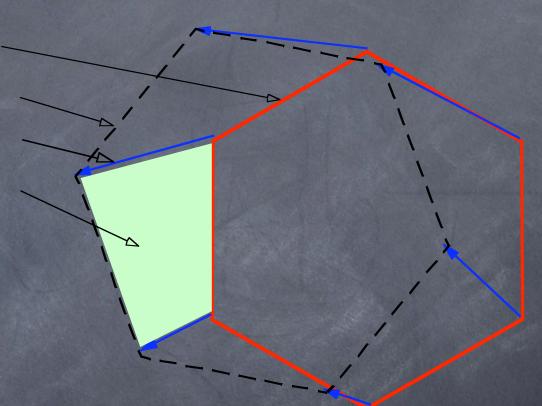# Incremental Remapping
Lipscomb and Ringler (MWR 2005)

Arrival Grid

Departure Grid

Back-trajectories

Flux across arrival grid edge during dt

Flux is computed via quadrature methods with limiting on the reconstruction to produce a compatible, conservative, and monotone advection scheme.

Tracer advection in SWTC#2: top-hat and cosine bell

In these cases, IR is more accurate than FCT and centered.
IR is cheaper than FCT for more than seven tracers.
Lipscomb and Ringler, MWR, 2005